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Dr. Steven Vogel Lecture

University of Maine Chapter of Sigma Xi

School of Marine Sciences

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THE CULTURAL AFFAIRS/DISTINGUISHED LECTURE SERIES COMMITTEE

GRANT APPLICATION

PROVIDE 10 (TEN) COPIES, INCLUDING THE ORIGINAL.
PLEASE PLACE A COPY OF THIS COVER SHEET ON TOP OF EACH COPY

I. Applicant/Organization: University of Maine Chapter of Sigma Xi (The Scientific Research Society) and School of Marine Sciences

II. a. Responsible Organization Officer: Sara Lindsay

b. Title: Vice President, UM Sigma Xi & Assistant Research Professor of Marine Science

c. Campus Address (include EMail and Telephone): 5751 Murray Hall, room 319B
581-2739, slindsay@maine.edu

III. Summary of program requiring funding (title; featured artist(s); speaker(s); scheduled date (s):

Dr. Steven Vogel (James B. Duke Professor of Biology at Duke University) will give a public Sigma Xi Distinguished Scientist lecture and a research seminar in the School of Marine Sciences seminar series either October 14-15 or October 21-22, 2004. A noted author on biomechanics, Dr. Vogel's expertise spans many disciplines including biology, marine science, physics, mathematics, and engineering. His public seminar will address the physics of living, and touch on strategies for engaging K-16 students in learning physics. Dr. Vogel will also meet with faculty and students during his visit.

Expand in fuller detail, a supporting statement with detailed, itemized budget. Funding for current application is contingent upon submission of detailed budget and attendance report for any previous years' grants.

IV. a. Total funding required for program:	\$ 1700
b. Amount committed by applicant organization:	\$ 350
c. Amount committed by Office of VP for Research & other departments	\$ 600
d. Amount requested from other funding sources	\$ 200
e. Amount requested of Cultural Affairs/DLS Committee:	\$ 550

Signature of responsible organization officer/date: _____

03/25/2004
DATE

Sara M. Lindsay
SIGNATURE

\$550

SEND COMPLETED APPLICATION TO:

CULTURAL AFFAIRS COMMITTEE
C/O PRESIDENT'S OFFICE
200 ALUMNI HALL, CAMPUS

SIGMA XI DISTINGUISHED SCIENTIST SEMINAR, FALL 2004
Submitted by Sara Lindsay and François Amar
For the University of Maine Chapter of Sigma Xi (The Scientific Research Society)
and the School of Marine Sciences

The University of Maine Chapter of Sigma Xi is in a period of revitalization on campus, and requests funding to help support the visit of a distinguished scientist in the Fall of 2004. Dr. Steven Vogel is James B. Duke Professor of Biology at Duke University. He earned his Ph.D. in 1966 from Harvard University. His expertise lies in explaining how physics affects biology. He is the author most recently of *Comparative Biomechanics* (Princeton University Press, 2003), *Prime Mover: A Natural History of Muscle* (W. W. Norton, 2002) and *Cats' Paws and Catapults: Mechanical Worlds of Nature and People* (W. W. Norton, 1998). His research interests center on understanding life in moving fluids, and he authored a seminal book on the topic: *Life in Moving Fluids: The Physical Biology of Flow* (Princeton, 1983 and 1989; revised and expanded in a second edition published in 1994).

As a scientist whose interests and expertise span many disciplines including biology, marine science, physics, mathematics, and engineering, Dr. Vogel can speak to a broad audience, and for that reason, the University of Maine chapter of Sigma Xi (the Scientific Research Society), has invited him to give two lectures at the University of Maine next fall (Oct. 14-15 or Oct 21-22). Dr. Vogel will present a seminar to the general public, Sigma Xi members, and UM community on the broad topic of the physics of living. He will also touch on strategies for engaging K-16 students in learning physics. He will give a second, more research-focused seminar to the scientific community as part of the School of Marine Sciences seminar series (Co-sponsored with the Departments of Biological Sciences and Physics & Astronomy). Dr. Vogel will also meet with faculty and students of the cosponsoring units to discuss their research interests. Sigma Xi hopes this seminar will promote conversation among the diverse scientific community at UM, including those involved in science education. We are requesting \$ 550 from the CA/DLS Committee to defray costs associated with Dr. Vogel's visit; no CA/DLS monies would be used for the public reception.

Budget for Fall 2004 Sigma Xi Distinguished Scientist Seminar

Expenses

Honorarium	\$ 500
Airfare	\$ 450
Lodging	\$ 200
Meals	\$ 150
Public Reception	\$ 200
Publicity	\$ 100
Room fee	\$ 100
Total Expenses	\$1700

Income

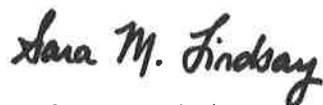
UM Sigma Xi	\$ 350
School of Marine Sciences	\$ 200
Dept. Biological Sciences	\$ 100
Dept. of Physics & Astronomy	\$ 100
Office of VP for Research	\$ 200
Requested of Center for SMER	\$ 100
Requested of Provost's office	\$ 100
Requested of CA/DLS	\$ 550
Total Income	\$ 1700

Report: Dr. Steven Vogel, Sigma Xi Distinguished Seminar Speaker, Fall 2004

In October, 2004, The University of Maine chapter of Sigma Xi (the Scientific Research Society) hosted two seminars by distinguished scientist Dr. Steven Vogel, James B. Duke Professor of Biology at Duke University. A noted author and distinguished researcher in biomechanics, Dr. Vogel gave one seminar to the general public (*Copying Nature's Mechanical Devices: History versus Biology*), and a second research seminar (*To Twist or Bend? Flexibility in the Face of Flow*). Approximately 60 people attended the general public lecture, including faculty from the Maine Maritime Academy, and even an instructor and 12 students from the College of the Atlantic. Approximately 120 faculty members and students from a variety of UM departments including Physics, Biological Sciences, Engineering, Marine Sciences, Mathematics, and Chemistry attended Dr. Vogel's research seminar. The research seminar was also broadcast via the internet to the Darling Marine Center.

In addition to presenting two seminars, Dr. Vogel conducted a video conference with students studying physical biology at the Darling Marine Center in the School of Marine Science's Semester by the Sea program. The students were thrilled to talk with the author of their text book, and Dr. Vogel enjoyed talking with the students. Dr. Vogel also met with faculty and students in the School of Marine Sciences, Physics, and Mechanical Engineering. Although his visit was brief (only three days), Dr. Vogel was so impressed with the faculty, students, and general atmosphere at the University of Maine, that he will be spending 2-3 months of his sabbatical next fall at the Darling Marine Center, where he may guest lecture in some of the Semester by the Sea classes. This is a wonderful opportunity for UM students and faculty, and would not have happened had Dr. Vogel not visited as a distinguished lecturer. On behalf of the UM Chapter of Sigma Xi, I gratefully acknowledge the generous financial support from the Cultural Affairs Committee that helped make Dr. Vogel's visit a true success. A summary of expenses associated with Dr. Vogel's visit follows below; the CA/DLS award for \$550 was spent on Dr. Vogel's honorarium (\$500) and to reimburse a portion of his meals (\$50). Copies of the flyers announcing Dr. Vogel's seminars are also attached.

Respectfully submitted,



Dr. Sara M. Lindsay
President, UM Sigma Xi and
Assistant Professor of Marine Sciences

Expenses	Amount	Source of Income
Honorarium	\$ 500	CA/DLS Award
Airfare	\$ 180	Sigma Xi
car	\$ 100	Sigma Xi
Airport parking	\$ 30	Sigma Xi
Lodging	\$ 100	School of Marine Sciences (SMS)
Meals	\$ 315	Bio/Physics/SMS/SigmaXi/CA-DLS (\$50 only)
Public Reception	\$ 185	V.P. Eckardt
<u>Publicity</u>		
Maine Campus ad	\$ 144	Provost's Office
Printing Services	\$ 55	Provost's Office
TOTAL	1609	

Dr. Steven Vogel
Duke University

Copying Nature's Mechanical Devices: History vs. Mythology

Thursday, October 14th, 7:30 pm

D. P. Corbett Hall, Room 100

University of Maine

Reception following the seminar

How is a scallop shell like cardboard? Or a spider web like a shock absorber? Sure, barbed wire looks like a thorn, but does technology really mimic nature? Join us for an evening of discovery – this talk just might change the way you look at the world!

Supported by: The Cultural Affairs Committee, UMaine Sigma Xi, Office of the V.P. for Research, Office of the Provost, School of Marine Sciences, Department of Biological Sciences, and Department of Physics & Astronomy

School of Marine Sciences and
Department of Biological Sciences
Joint Departmental Seminar



Steven Vogel
Duke University

To Twist or Bend?
Flexibility in the Face of Flow

October 15, 2004

3:10 pm

Murray Hall Room 102

Refreshments at 3:00 pm

Dr. Vogel's visit is supported by: The Cultural Affairs Committee, UMaine Sigma Xi, Office of the V.P. for Research, Office of the Provost, School of Marine Sciences, Department of Biological Sciences, and Department of Physics & Astronomy

Copying Nature's Mechanical Devices: History vs. Mythology



Steven Vogel
Duke University

Thursday, October 14, 7:30 pm
D.P. Corbett Business Bldg., Room 100
Reception following the seminar -- Free



Sure, barbed wire looks like thorns, but does human technology really mimic nature?

Join us for an evening of discovery – this talk just might change the way you look at the world!

Supported by: The Cultural Affairs Committee, UM Sigma Xi, Office of the V.P. for research, Office of the Provost, School of Marine Sciences, Department of Biological Sciences, and Department of Physics & Astronomy.